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10/721,998	11/26/2003	Hirotsugu Okura	65933-053	6542

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McDERMOTT, WILL & EMERY  
600 13th Street, N.W.  
Washington, DC 20005-3096

EXAMINER
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BOKHARI, SYED M

ART UNIT	PAPER NUMBER
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2616

MAIL DATE	DELIVERY MODE
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11/27/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

### Application No.

10/721,998

### Applicant(s)

OKURA, HIROTSUGU

### Examiner

Syed Bokhari

### Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 11/26/2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-6,8,9,11,13,14 and 16 is/are rejected.
- 7) ☒ Claim(s) 3,7,10,12 and 15 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date See Continuation Sheet.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :06/13/2007, 01/10/2007, 12/08/2005 and 11/26/2003.

## DETAILED ACTION

### *Response to Amendment*

1. Applicant amendment filed on September 13<sup>th</sup>, 2007 has been entered. Claims 8 and 10 have been amended. Claims 1-16 are pending in the application.

### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

4. Claims 1-2, 4-6, 8-9, 11, 13-14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jayaraman et al. (US 2003/0210694 A1) and Corey (USP 5,995,708).

Jayaraman et al. discloses a communication system for content routing architecture for enhanced internet services with the following features: regarding claim 1, a packet transmission apparatus comprising (Fig. 4, intelligent content routing network, see "routing data packets within the network" recited in paragraph 0076 lines 1-4, paragraph 0077 line 1 and paragraph 0078 lines 1-2), an extraction unit which extracts information from a stream packet to be sent to a terminal (Fig. 6, system architecture of designed intelligent content based router, see "capture and extraction units" recited in paragraph 0157 lines 1-7) and which indicates a location where an individual program for performing a specific process on the stream is stored (Fig. 6, system architecture of designed intelligent content based router, see "locate the server address and form data location table" recited in paragraph 0118 lines 9-14); regarding claim 2, further comprising a switch unit which provides the execution unit with a switchover instruction to incorporate the individual program after the download of the individual program is completed (Fig. 6, system architecture of designed intelligent content based router, see "switching unit" recited in paragraph 0160 lines 1-9); regarding claim 4, wherein the storage stores the information, which indicates the location where the individual program is stored, in association with the individual program (Fig. 6, system architecture of designed intelligent content based router, see "resource inspector" recited in paragraph 0118 lines 1-13); regarding claim 5, a packet transmission apparatus comprising (Fig. 4, intelligent content routing network, see "routing data packets within the network" recited in paragraph 0076 lines 1-4, paragraph 0077 line 1 and paragraph 0078 lines 1-2), an extraction unit which extracts information from a stream packet to be

sent to a terminal (Fig. 6, system architecture of designed intelligent content based router, see "capture and extraction units" recited in paragraph 0157 lines 1-7) and which indicates a characteristic of the stream data (Fig. 6, system architecture of designed intelligent content based router, see "locate the server address and form data location table" recited in paragraph 0118 lines 9-14); regarding claim 6, further comprising a switch unit which provides the execution unit with a switchover instruction to incorporate the individual program after the download of the individual program is completed (Fig. 6, system architecture of designed intelligent content based router, see "switching unit" recited in paragraph 0160 lines 1-9); regarding claim 8, wherein the storage stores the information, which indicates the characteristic of the stream data, in association with the individual program (Fig. 6, system architecture of designed intelligent content based router, see "resource inspector" recited in paragraph 0118 lines 1-13); regarding claim 9, further comprising a switch unit which selects from the storage an individual program for converting the packet in accordance with a processing capacity of the terminal (Fig. 6, system architecture of designed intelligent content based router, see "switching unit" recited in paragraph 0160 lines 1-9); regarding claim 11, a program obtainment method comprising (Fig. 4, intelligent content routing network, see "routing data packets within the network" recited in paragraph 0076 lines 1-4, paragraph 0077 line 1 and paragraph 0078 lines 1-2), extracting information from a stream packet to be sent to a terminal (Fig. 6, system architecture of designed intelligent content based router, see "capture and extraction units" recited in paragraph 0157 lines 1-7) and which indicates a location where an individual program for

performing a specific process on the stream is stored (Fig. 6, system architecture of designed intelligent content based router, see "locate the server address and form data location table" recited in paragraph 0118 lines 9-14); regarding claim 13, further comprising storing the information, which indicates the location where the individual program is stored, in association with the individual program (Fig. 6, system architecture of designed intelligent content based router, see "resource inspector" recited in paragraph 0118 lines 1-13); regarding claim 14, A program obtainment method comprising (Fig. 4, intelligent content routing network, see "routing data packets within the network" recited in paragraph 0076 lines 1-4, paragraph 0077 line 1 and paragraph 0078 lines 1-2), extracting information from a stream packet to be sent to a terminal (Fig. 6, system architecture of designed intelligent content based router, see "capture and extraction units" recited in paragraph 0157 lines 1-7) and which indicates a characteristic of the stream data (Fig. 6, system architecture of designed intelligent content based router, see "locate the server address and form data location table" recited in paragraph 0118 lines 9-14) and regarding claim 16, further comprising storing the information, which indicates the characteristic of the stream data, in association with the individual program (Fig. 6, system architecture of designed intelligent content based router, see "resource inspector" recited in paragraph 0118 lines 1-13).

Jayaraman et al. does not disclose the following features: regarding claim 1, a download unit which downloads the individual program from the location, a storage which stores the downloaded individual program and an execution unit which executes the individual program by incorporating the individual program into a packet processing

on the stream; regarding claim 2, wherein the execution unit performs a normal packet transmission processing on the stream until receiving the switchover instruction; regarding claim 4, if the information extracted by the extraction unit, which indicates the location where the individual program is stored, has been already stored in the storage, the individual program is not downloaded once more and the packet processing is performed using the individual program stored in the storage; regarding claim 5, a download unit which searches and downloads an individual program suitable for the, a storage which stores the downloaded individual program and an execution unit which executes the individual program by incorporating the individual program into a packet processing on the stream; regarding claim 6, wherein the execution unit performs a normal packet transmission processing on the stream until receiving the switchover instruction; regarding claim 8, if the information extracted by the extraction unit, which indicates the characteristic of the stream data, has been already stored in the storage, the packet processing using the individual program stored in the storage is performed without downloading the individual program; regarding claim 9, provides the execution unit with a switchover instruction to incorporate the selected individual program; regarding claim 11, performing a normal packet transmission processing on the, stream while the individual program is being downloaded from the location and performing a packet processing continuously by incorporating the individual program into the packet processing and once the download of the individual program is completed; regarding claim 13, wherein if the information extracted by the extraction unit, which indicates the location where the individual program is stored, has been already stored, the individual



program is not downloaded once more and the packet processing is performed using the stored individual program; regarding claim 14, performing a normal packet transmission processing on the stream while the individual program suitable for the characteristic is being downloaded and performing a packet processing continuously by incorporating the individual program into the packet processing once the download of the individual program is completed and regarding claim 16, wherein if the information extracted by the extraction unit, which indicates the characteristic of the stream data, has been already stored, the individual program is not downloaded once more and the packet processing is performed using the stored individual program

Corey discloses a communication system for delivering programs based upon program requests from remote viewing stations with the following features: regarding claim 1, a download unit which downloads the individual program from the location (Fig. 2, mass storage units, see "control unit 218 controlling downloads" recited in column 7 lines 39-44), a storage which stores the downloaded individual program (Fig. 2, mass storage units, see "mass storage and block 210 and active storage block 214" recited in column 5 lines 41-49) and an execution unit which executes the individual program by incorporating the individual program into a packet processing on the stream (Fig. 1, delivering data to remote viewing station, see "transmission of stored data from storage to remote stations" recited in column 4 lines 34-51); regarding claim 2, wherein the execution unit performs a normal packet transmission processing on the stream until receiving the switchover instruction (Fig. 1, delivering data to remote viewing station, see "transmission of stored data from storage to remote stations"

recited in column 4 lines 34-51); regarding claim 4 if the information extracted by the extraction unit, which indicates the location where the individual program is stored, has been already stored in the storage, the individual program is not downloaded once more (Fig. 1, delivering data to remote viewing station, see "determining whether requested data is stored step 112" recited in column 5 lines 11-16 and 22-26) and the packet processing is performed using the individual program stored in the storage (Fig. 1, delivering data to remote viewing station, see "transmission of stored data from storage to remote stations" recited in column 4 lines 34-51); regarding claim 5 a download unit which searches and downloads an individual program suitable for the characteristic (Fig. 2, mass storage units, see "control unit 218 controlling downloads" recited in column 7 lines 39-44), a storage which stores the downloaded individual program (Fig. 2, mass storage units, see "mass storage and block 210 and active storage block 214" recited in column 5 lines 41-49) and an execution unit which executes the individual program by incorporating the individual program into a packet processing on the stream (Fig. 1, delivering data to remote viewing station, see "transmission of stored data from storage to remote stations" recited in column 4 lines 34-51); regarding claim 8 if the information extracted by the extraction unit, which indicates the characteristic of the stream data, has been already stored in the storage (Fig. 1, delivering data to remote viewing station, see "determining whether requested data is stored step 112" recited in column 5 lines 11-16 and 22-26), the packet processing using the individual program stored in the storage is performed without downloading the individual program (Fig. 1, delivering data to remote viewing station, see "begins transmitting at step 118 before

completing step 114" recited in column 5 lines 27-33); regarding claim 9, provides the execution unit with a switchover instruction to incorporate the selected individual program (Fig. 1, delivering data to remote viewing station, see "transmission of stored data from storage to remote stations" recited in column 4 lines 34-51); regarding claim 11, performing a normal packet transmission processing on the stream (Fig. 1, delivering data to remote viewing station, see "begins transmitting at step 118 before completing step 114" recited in column 5 lines 27-33), while the individual program is being downloaded from the location (Fig. 2, mass storage units, see "control unit 218 controlling downloads" recited in column 7 lines 39-44), performing a packet processing continuously by incorporating the individual program into the packet processing once the download of the individual program is completed (Fig. 1, delivering data to remote viewing station, see "transmission of stored data from storage to remote stations" recited in column 4 lines 34-51); regarding claim 13, wherein if the information extracted by the extraction unit, which indicates the location where the individual program is stored, has been already stored, the individual program is not downloaded once more (Fig. 1, delivering data to remote viewing station, see "determining whether requested data is stored step 112" recited in column 5 lines 11-16 and 22-26) and the packet processing is performed using the stored individual program (Fig. 1, delivering data to remote viewing station, see "transmission of stored data from storage to remote stations" recited in column 4 lines 34-51); regarding claim 14 performing a normal packet transmission processing on the stream (Fig. 1, delivering data to remote viewing station, see "begins transmitting at step 118 before completing step 114" recited in

column 5 lines 27-33) while the individual program suitable for the characteristic is being downloaded (Fig. 2, mass storage units, see "control unit 218 controlling downloads" recited in column 7 lines 39-44) and performing a packet processing continuously by incorporating the individual program into the packet processing once the download of the individual program is completed (Fig. 1, delivering data to remote viewing station, see "transmission of stored data from storage to remote stations" recited in column 4 lines 34-51) and regarding claim 16, wherein if the information extracted by the extraction unit, which indicates the characteristic of the stream data, has been already stored, the individual program is not downloaded once more (Fig. 1, delivering data to remote viewing station, see "determining whether requested data is stored step 112" recited in column 5 lines 11-16 and 22-26) and the packet processing is performed using the stored individual program (Fig. 1, delivering data to remote viewing station, see "transmission of stored data from storage to remote stations" recited in column 4 lines 34-51) and the packet processing is performed using the stored individual program (Fig. 1, delivering data to remote viewing station, see "transmission of stored data from storage to remote stations" recited in column 4 lines 34-51).

It would have been obvious to one of the ordinary skill in the art at the time of the invention to modify the system of Jayaraman et al. by using the features, as taught by Corey, in order to provide download unit downloads individual program, execution unit performs packet transmission processing and indicates the location of individual stored program. The motivation of enhancing Jayaraman et al. system is to capability of downloading, storing and executing individual program in a cost effective manner.

***Allowable Subject Matter***

5. Claims 3, 7, 10 12 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

6. Applicant's arguments with respect to claim1, 5, 11 and 14 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Syed Bokhari whose telephone number is (571) 270-3115. The examiner can normally be reached on Monday through Friday 8:00-17:00 Hrs..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kwang B. Yao can be reached on (571) 272-3182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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KWANG BIN YAO  
SUPERVISORY PATENT EXAMINER

A handwritten signature in black ink, appearing to read 'Kwang Bin Yao', is written over the printed name and title.